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Consultants and Engineers
(Engg. Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
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Ph: 9448853634, 8762194386
Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/PE/16/2022-2023 Date 05.10.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.
Agency : **Sri. Panduranga E,** Contractor, Bangalore.
Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location Sharadamba Nagara Jalahalli Village M/R Near Ragavendra Mutt # PRM Ladies Tailor W No.16

Sample Recied on 27.09.2022
Date of Testing 05.10.2022
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	70	7.00	7.00	93.0	90-100
2.36	132	13.20	20.20	79.8	75-100
1.18	141	14.10	34.30	65.7	55-90
600 Micron	250	25.00	59.30	40.7	35-59
300 Micron	182	18.20	77.50	22.5	8-30
150 Micron	150	15.00	92.50	7.5	0-10

Note:

1. The Material is satisfied as per the requirement.

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Job No.: SCE/BBMP/PE/16/2022-2023

Date 05.10.2022

TEST REPORT ON COARSE AGGREGATES

Client Agency : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.

Name of Work : **Sri. Panduranga E,** Contractor, Bangalore.

: Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location: Sharadamba Nagara Jalahalli Village M/R Near Ragavendra Mutt # PRM Ladies Tailor W No.16

Sample Recied on: 27.09.2022

Date of Testing: 05.10.2022

IS Code: :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material: : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	235	1.57	1.57	98.43	95-100
20	8263	55.09	56.65	43.35	30-70
10	3158	21.05	77.71	22.29	10-35
4.75	2714	18.09	95.80	4.20	0-5

Note:

1. The Material is satisfied as per the requirement.

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Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/PE/16/2022-2023 Date 05.10.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.

Agency : **Sri. Panduranga E,** Contractor, Bangalore.

Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location Sharadamba Nagara Jalahalli Village M/R Near Ragavendra Mutt # PRM Ladies Tailor W No.16

Sample Recied on 27.09.2022

Date of Testing 05.10.2022

IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	182	3.6	3.6	96.4	95-100
10	2415	48.3	51.9	48.1	25-55
4.75	2236	44.7	96.7	3.3	0-10

Note:

1. The Material is satisfied as per the requirement.

For Sapience Consultants

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Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/PE/16/2022-2023

Date 05.10.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client :Assistant Executive Engineer, Yashwanthapura Sub Division,BBMP, Bangalore.
Agency : Sri. Panduranga E, Contractor, Bangalore.
Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore
Location : Sharadamba Nagara Jalahalli Village M/R Near Ragavendra Mutt # PRM Ladies Tailor W No.16
Sample Received on 27.09.2022
Date of Testing 05.10.2022
Total wt. of aggregates in gms = **1000**
Material : Plastering Sand

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	10	1.00	1.00	99.0	95-100
2.36	18	1.80	2.80	97.2	95-100
1.18	32	3.20	6.00	94.0	90-100
600 Micron	72	7.20	13.20	86.8	80-100
300 Micron	271	27.10	40.30	59.7	20-65
150 Micron	550	55.00	95.30	4.7	0-15

Note:
1. The Material is satisfied as per the requirement.

For Sapience Consultants

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Job No.: SCE/BBMP/PE/16/2022-2023

Date 05.10.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client :**Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.
Agency : **Sri. Panduranga E,** Contractor, Bangalore.
Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location : Sharadamba Nagara Jalahalli Village M/R Near Ragavendra Mutt # PRM Ladies Tailor W No.16

Sample Received on 27.09.2022 Total wt. of aggregates in gms = **1000**

Date of Testing 05.10.2022

Material : Masonry Sand

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	22	2.20	2.20	97.8	90-100
1.18	36	3.60	5.80	94.2	70-100
600 Micron	83	8.30	14.10	85.9	40-100
300 Micron	270	27.00	41.10	58.9	5-70
150 Micron	458	45.80	86.90	13.1	0-15

Note:

1. The Material is satisfied as per the requirement.

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Job No.: SCE/BBMP/PE/16/2022-2023

Date: 11.10.2022

KERB STONE (CORE) TEST REPORT

Client	:	**:Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.
Agency	:	**: Sri. Panduranga E,** Contractor, Bangalore.
Name of Work	:	: Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore
Location	:	Sharadamba Nagara Jalahalli Village M/R Near Ragavendra Mutt # PRM Ladies Tailor W No.16
Sample Received on	:	27.09.2022
No.of Sample Tested	:	03
Date of Testing	:	11.10.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.359	2344.07	1.56	0.952	32.90	16.76	18.10	17.24	21.55
2	50.00	83.00	0.385	2362.40	1.66	0.963	33.40	17.01	18.37	17.70	22.12
3	50.00	87.00	0.408	2388.42	1.74	0.972	34.50	17.57	18.98	18.44	23.05

Note:

1. The Material is satisfied as per the requirement.

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Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/PE/16/2022-2023 Date:06.10.2022

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.

Agency : **Sri. Panduranga E,** Contractor, Bangalore.

Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Sample : : Cement (Zuari 53 grade OPC)

Location : Sharadamba Nagara NO.1 Akansha 4th Cross, Jalahalli W No.16

Date of Manufacture: : August-2022

Sample Received on : 27.09.2022

Date of Testing 04.10.2022 to 06.10.2022

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part -5):1988(RA 2014)	140Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5):1988(RA 2014)	375 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

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Note:

1. The Material is satisfied as per the requirement.

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Ph: 9448853614, 8762194386
Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/PE/16/2022-2023

Date 04.10.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client Agency : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.
Name of Work : **Sri. Panduranga E,** Contractor, Bangalore.
: Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location Sharadamba Nagara NO.1 Akansha 4th Cross, Jalahalli W No.16

Sample Recied on 27.09.2022
Date of Testing 04.10.2022
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	71	7.10	7.10	92.9	90-100
2.36	132	13.20	20.30	79.7	75-100
1.18	155	15.50	35.80	64.2	55-90
600 Micron	250	25.00	60.80	39.2	35-59
300 Micron	190	19.00	79.80	20.2	8-30
150 Micron	150	15.00	94.80	5.2	0-10

Note:

1. The Material is satisfied as per the requirement.

For Sapience Consultants

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Job No.: SCE/BBMP/PE/16/2022-2023

Date 04.10.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.

Agency : **Sri. Panduranga E,** Contractor, Bangalore.

Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location Sharadamba Nagara NO.1 Akansha 4th Cross, Jalahalli W No.16

Sample Recied on 27.09.2022

Date of Testing 04.10.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	223	1.49	1.49	98.51	95-100
20	8412	56.08	57.57	42.43	30-70
10	3158	21.05	78.62	21.38	10-35
4.75	2654	17.69	96.31	3.69	0-5

Note:

1. The Material is satisfied as per the requirement.

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Job No.: SCE/BBMP/PE/16/2022-2023

Date 04.10.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.

Agency : **Sri. Panduranga E,** Contractor, Bangalore.

Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location Sharadamba Nagara NO.1 Akansha 4th Cross, Jalahalli W No.16

Sample Recied on 27.09.2022

Date of Testing 04.10.2022

IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	190	3.8	3.8	96.2	95-100
10	2415	48.3	52.1	47.9	25-55
4.75	2158	43.2	95.3	4.7	0-10

Note:

1. The Material is satisfied as per the requirement.

For Sapience Consultants

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Job No.: SCE/BBMP/PE/16/2022-2023

Date 04.10.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client :**Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.
Agency : **Sri. Panduranga E,** Contractor, Bangalore.
Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location : Sharadamba Nagara NO.1 Akansha 4th Cross, Jalahalli W No.16
Sample Received on 27.09.2022 Total wt. of aggregates in gms = **1000**
Date of Testing 04.10.2022
Material : Plastering Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	9	0.90	0.90	99.1	95-100
2.36	18	1.80	2.70	97.3	95-100
1.18	33	3.30	6.00	94.0	90-100
600 Micron	72	7.20	13.20	86.8	80-100
300 Micron	260	26.00	39.20	60.8	20-65
150 Micron	550	55.00	94.20	5.8	0-15

Note:
1. The Material is satisfied as per the requirement.

For Sapience Consultants

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Job No.: SCE/BBMP/PE/16/2022-2023

Date 04.10.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client :**Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.
Agency : **Sri. Panduranga E,** Contractor, Bangalore.
Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore
Location : Sharadamba Nagara NO.1 Akansha 4th Cross, Jalahalli W No.16
Sample Received on 27.09.2022
Date of Testing 04.10.2022
Material : Masonry Sand

Total wt. of aggregates in gms = **1000**

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	28	2.80	2.80	97.2	90-100
1.18	36	3.60	6.40	93.6	70-100
600 Micron	83	8.30	14.70	85.3	40-100
300 Micron	260	26.00	40.70	59.3	5-70
150 Micron	458	45.80	86.50	13.5	0-15

Note:

1. The Material is satisfied as per the requirement.

For Sapience Consultants

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#B9-003, GANGA, Jnanabharathi Enclave,
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Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/PE/16/2022-2023

Date 04.10.2022

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.

Agency : **Sri. Panduranga E,** Contractor, Bangalore.

Name of the Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location : Sharadamba Nagara NO.1 Akansha 4th Cross, Jalahalli W No.16

Sample Received on 27.09.2022

Date of Testing 04.10.2022

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	33.9	416.0	5.20	2118.75	Minimum required Compressive Strength of Individual Units 5.00N/mm^2
2	Block 2	34.8	425.0	5.31	2175.00	
3	Block 3	35.6	438.0	5.48	2225.00	
4	Block 4	36.4	442.0	5.53	2275.00	

Note:

1. The Material is satisfied as per the requirement.

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Lab No.: SCE/BBMP/PE/16/2022-2023

Date: 10.10.2022

KERB STONE (CORE) TEST REPORT

Client	:	:Assistant Executive Engineer, Yashwanthapura Sub Division,BBMP, Bangalore.
Agency	:	: Sri. Panduranga E, Contractor, Bangalore.
Name of Work	:	: Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore
Location	:	Sharadamba Nagara NO.1 Akansha 4th Cross, Jalahalli W No.16
Sample Received on	:	27.09.2022
No.of Sample Tested	:	03
Date of Testing	:	10.10.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	77.00	0.349	2308.37	1.54	0.950	33.50	17.06	18.43	17.51	21.89
2	50.00	81.00	0.373	2345.28	1.62	0.959	34.80	17.72	19.14	18.36	22.94
3	50.00	86.00	0.398	2356.97	1.72	0.970	35.20	17.93	19.36	18.78	23.47

Note:

1. The Material is satisfied as per the requirement.

For Sapience Consultants

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Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/PE/37/2022-2023 Date:30.09.2022

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.

Agency : **Sri. Panduranga E,** Contractor, Bangalore.

Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Sample : : Cement (Zuari 53 grade OPC)

Location : B K Nagara 1st Main Road Opp Tejaswini Rice Store 17th Cross W No.37

Date of Manufacture: : August-2022

Sample Received on : 24.09.2022

Date of Testing 28.09.2022 to 30.09.2022

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	360 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00%	-

For Sapience Consultants

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Note:

1. The Material is satisfied as per the requirement.

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Job No.: SCE/BBMP/PE/37/2022-2023

Date 30.09.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client	**: Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.
Agency	**: Sri. Panduranga E,** Contractor, Bangalore.
Name of Work	: Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore
Location	B K Nagara 1st Main Road Opp Tejaswini Rice Store 17th Cross W No.37
Sample Recied on	24.09.2022
Date of Testing	30.09.2022
IS Code	:IS 383:2016
	:IS 2386 (Part 1):1963(RA 2011)
Material	: Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	88	8.80	8.80	91.2	90-100
2.36	125	12.50	21.30	78.7	75-100
1.18	160	16.00	37.30	62.7	55-90
600 Micron	242	24.20	61.50	38.5	35-59
300 Micron	182	18.20	79.70	20.3	8-30
150 Micron	147	14.70	94.40	5.6	0-10

Note:

1. The Material is satisfied as per the requirement.

For Sapience Consultants

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Job No.: SCE/BBMP/PE/37/2022-2023

Date 30.09.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.

Agency : **Sri. Panduranga E,** Contractor, Bangalore.

Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location B K Nagara 1st Main Road Opp Tejaswini Rice Store 17th Cross W No.37

Sample Recied on 24.09.2022

Date of Testing 30.09.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	228	1.52	1.52	98.48	95-100
20	8412	56.08	57.60	42.40	30-70
10	3215	21.43	79.03	20.97	10-35
4.75	2654	17.69	96.73	3.27	0-5

Note:

1. The Material is satisfied as per the requirement.

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Job No.: SCE/BBMP/PE/37/2022-2023

Date 30.09.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.

Agency : **Sri. Panduranga E,** Contractor, Bangalore.

Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location B K Nagara 1st Main Road Opp Tejaswini Rice Store 17th Cross W No.37

Sample Recied on 24.09.2022

Date of Testing 30.09.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	201	4.0	4.0	96.0	95-100
10	2415	48.3	52.3	47.7	25-55
4.75	2145	42.9	95.2	4.8	0-10

Note:

1. The Material is satisfied as per the requirement.

For Sapience Consultants

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Job No.: SCE/BBMP/PE/37/2022-2023

Date 30.09.2022

TEST REPORT ON SOLID CONCRETE BLOCKS

Client :**Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.

Agency : **Sri. Panduranga E,** Contractor, Bangalore.

Name of the Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location : B K Nagara 1st Main Road Opp Tejaswini Rice Store 17th Cross W No.37

Sample Received on 24.09.2022

Date of Testing 30.09.2022

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	33.5	401.2	5.02	2093.75	Minimum required Compressive Strength of Individual Units 5.00N/mm^2
2	Block 2	34.8	415.6	5.20	2175.00	
3	Block 3	35.6	424.8	5.31	2225.00	
4	Block 4	36.2	432.1	5.40	2262.50	

Note:

1. The Material is satisfied as per the requirement.

For Sapience Consultants

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Ack No.: SCE/BBMP/PE/37/2022-2023

Date 30.09.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.
Agency : **Sri. Panduranga E,** Contractor, Bangalore.
Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location : B K Nagara 1st Main Road Opp Tejaswini Rice Store 17th Cross W No.37
Sample Received on 24.09.2022 Total wt. of aggregates in gms = **1000**
Date of Testing 30.09.2022
Material : Plastering Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	15	1.50	1.50	98.5	95-100
2.36	18	1.80	3.30	96.7	95-100
1.18	33	3.30	6.60	93.4	90-100
600 Micron	72	7.20	13.80	86.2	80-100
300 Micron	261	26.10	39.90	60.1	20-65
150 Micron	550	55.00	94.90	5.1	0-15

Note:
1. The Material is satisfied as per the requirement.

For Sapience Consultants

Authorised Signatory

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Job No.: SCE/BBMP/PE/37/2022-2023

Date 30.09.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.
Agency : **Sri. Panduranga E,** Contractor, Bangalore.
Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location : B K Nagara 1st Main Road Opp Tejaswini Rice Store 17th Cross W No.37
Sample Received on 24.09.2022 Total wt. of aggregates in gms = **1000**
Date of Testing 30.09.2022
Material : Masonry Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	25	2.50	2.50	97.5	90-100
1.18	36	3.60	6.10	93.9	70-100
600 Micron	81	8.10	14.20	85.8	40-100
300 Micron	254	25.40	39.60	60.4	5-70
150 Micron	480	48.00	87.60	12.4	0-15

Note:
1. The Material is satisfied as per the requirement.

For Sapience Consultants

Authorised Signatory

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Ref No.: SCE/BBMP/PE/37/2022-2023

Date: 05.10.2022

KERB STONE (CORE) TEST REPORT

Client	:	: Assistant Executive Engineer, Yashwanthapura Sub Division,BBMP, Bangalore.
Agency	:	: Sri. Panduranga E, Contractor, Bangalore.
Name of Work	:	: Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore
Location	:	B K Nagara 1st Main Road Opp Tejaswini Rice Store 17th Cross W No.37
Sample Received on	:	24.09.2022
No.of Sample Tested	:	03
Date of Testing	:	05.10.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	77.00	0.349	2308.37	1.54	0.950	33.60	17.11	18.48	17.56	21.95
2	50.00	81.00	0.373	2345.28	1.62	0.959	34.80	17.72	19.14	18.36	22.94
3	50.00	85.00	0.398	2384.70	1.70	0.968	35.10	17.88	19.31	18.68	23.35

Note:

1. The Material is satisfied as per the requirement.

For Sapience Consultants

Authorised Signatory

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Job No.: SCE/BBMP/PE/37/2022-2023

Date:01.10.2022

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.

Agency : **Sri. Panduranga E,** Contractor, Bangalore.

Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Sample : : Cement (Zuari 53 grade OPC)

Location : LIC Colony Main Road Infront of RO Plant(near Electric pole) W No.37

Date of Manufacture: : August-2022

Sample Received on : 26.09.2022

Date of Testing 29.09.2022 to 01.10.2022

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	355 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50%	-

For Sapience Consultants

Authorised Signatory

Note:

1. The Material is satisfied as per the requirement.

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Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/PE/37/2022-2023

Date 01.10.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.
Agency : **Sri. Panduranga E,** Contractor, Bangalore.
Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location LIC Colony Main Road Infront of RO Plant(near Electric pole) W No.37

Sample Recied on 26.09.2022
Date of Testing 01.10.2022
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	82	8.20	8.20	91.8	90-100
2.36	125	12.50	20.70	79.3	75-100
1.18	165	16.50	37.20	62.8	55-90
600 Micron	242	24.20	61.40	38.6	35-59
300 Micron	190	19.00	80.40	19.6	8-30
150 Micron	147	14.70	95.10	4.9	0-10

Note:

1. The Material is satisfied as per the requirement.

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Job No.: SCE/BBMP/PE/37/2022-2023

Date 01.10.2022

TEST REPORT ON COARSE AGGREGATES

Client	**: Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.
Agency	**: Sri. Panduranga E,** Contractor, Bangalore.
Name of Work	: Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore
Location	LIC Colony Main Road Infront of RO Plant(near Electric pole) W No.37
Sample Recied on	26.09.2022
Date of Testing	01.10.2022
IS Code	:IS 383:2016
	:IS 2386 (Part 1):1963(RA 2011)
Material	: 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	230	1.53	1.53	98.47	95-100
20	8412	56.08	57.61	42.39	30-70
10	3369	22.46	80.07	19.93	10-35
4.75	2654	17.69	97.77	2.23	0-5

Note:

1. The Material is satisfied as per the requirement.

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Job No.: SCE/BBMP/PE/37/2022-2023

Date 01.10.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.

Agency : **Sri. Panduranga E,** Contractor, Bangalore.

Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location: LIC Colony Main Road Infront of RO Plant(near Electric pole) W No.37

Sample Recied on: 26.09.2022

Date of Testing: 01.10.2022

IS Code: :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)

Material: : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	201	4.0	4.0	96.0	95-100
10	2415	48.3	52.3	47.7	25-55
4.75	2239	44.8	97.1	2.9	0-10

Note:

1. The Material is satisfied as per the requirement.

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Job No.: SCE/BBMP/PE/37/2022-2023

Date 01.10.2022

TEST REPORT ON SOLID CONCRETE BLOCKS

Client :**Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.

Agency : **Sri. Panduranga E,** Contractor, Bangalore.

Name of the Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore

Location :LIC Colony Main Road Infront of RO Plant(near Electric pole) W No.37

Sample Received on 26.09.2022

Date of Testing 01.10.2022

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	33.2	405.6	5.07	2075.00	Minimum required Compressive Strength of Individual Units 5.00N/mm^2
2	Block 2	34.5	428.9	5.36	2156.25	
3	Block 3	35.9	432.1	5.40	2243.75	
4	Block 4	36.8	444.8	5.56	2300.00	

Note:

1. The Material is satisfied as per the requirement.

For Sapience Consultants

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No: SCE/BBMP/PE/37/2022-2023

Date: 04.10.2022

KERB STONE (CORE) TEST REPORT

Client	:	: Assistant Executive Engineer, Yashwanthapura Sub Division,BBMP, Bangalore.
Agency	:	: Sri. Panduranga E, Contractor, Bangalore.
Name of Work	:	: Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore
Location	:	LIC Colony Main Road Infront of RO Plant(near Electric pole) W No.37
Sample Received on	:	26.09.2022
No.of Sample Tested	:	03
Date of Testing	:	04.10.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.359	2344.07	1.56	0.952	32.60	16.60	17.93	17.08	21.35
2	50.00	82.00	0.383	2378.78	1.64	0.961	33.80	17.21	18.59	17.87	22.34
3	50.00	86.00	0.404	2392.51	1.72	0.970	34.50	17.57	18.98	18.40	23.00

Note:

1. The Material is satisfied as per the requirement.

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Job No: SCE/BBMP/PE/37/2022-2023

Date 01.10.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.
Agency : **Sri. Panduranga E,** Contractor, Bangalore.
Name of Work : Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore
Location : LIC Colony Main Road Infront of RO Plant(near Electric pole) W No.37
Sample Received on 26.09.2022
Date of Testing 01.10.2022 Total wt. of aggregates in gms = **1000**
Material : Plastering Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	12	1.20	1.20	98.8	95-100
2.36	18	1.80	3.00	97.0	95-100
1.18	32	3.20	6.20	93.8	90-100
600 Micron	72	7.20	13.40	86.6	80-100
300 Micron	258	25.80	39.20	60.8	20-65
150 Micron	550	55.00	94.20	5.8	0-15

Note:

1. The Material is satisfied as per the requirement.

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Lab No: SCE/BBMP/PE/37/2022-2023

Date 01.10.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yashwanthapura Sub Division,BBMP, Bangalore.
Agency Name of Work : **Sri. Panduranga E,** Contractor, Bangalore.
: Comprehensive Development of Roads and Drains in JP Park, Yeshwanthpura , Jalahalli and Surrounding areas in Ward No.16, 17 and 37 under Package-2022-23 RRN-DIV-(15), BBMP, Bangalore
Location : LIC Colony Main Road Infront of RO Plant(near Electric pole) W No.37
Sample Received on 26.09.2022
Date of Testing 01.10.2022
Material : Masonry Sand

Total wt. of aggregates in gms = **1000**

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	22	2.20	2.20	97.8	90-100
1.18	36	3.60	5.80	94.2	70-100
600 Micron	85	8.50	14.30	85.7	40-100
300 Micron	254	25.40	39.70	60.3	5-70
150 Micron	456	45.60	85.30	14.7	0-15

Note:
1. The Material is satisfied as per the requirement.

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